



1756537 - R8 SEMS

SEMS # 1756537

044394



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. SITE NAME AND LOCATION

01 SITE NAME Legal, common, or descriptive name of site: Syro Steel Company - Western Division		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 950 West 400 South			
03 CITY Centerville		04 STATE UT	05 ZIP CODE 84104	06 COUNTY Davis	07 COUNTY OFFICE 01
09 COORDINATES LATITUDE 40 54 48. N LONGITUDE 111 53 30. W		10 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER			

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 06 / 10 / 85 MONTH DAY YEAR	02 SITE STATUS <input checked="" type="checkbox"/> ACTIVE <input type="checkbox"/> INACTIVE	03 YEARS OF OPERATION 1966 1974 BEGINNING YEAR ENDING YEAR	The ponds were closed in 1974 UNKNOWN but the facility is still in operation.
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04 AGENCY PERFORMING INSPECTION (Check all that apply)

<input type="checkbox"/> A. EPA	<input type="checkbox"/> B. EPA CONTRACTOR	<input type="checkbox"/> C. MUNICIPAL	<input type="checkbox"/> D. MUNICIPAL CONTRACTOR
<input checked="" type="checkbox"/> E. STATE	<input type="checkbox"/> F. STATE CONTRACTOR	<input type="checkbox"/> G. OTHER	

05 CHIEF INSPECTOR Muhammad Slam	06 TITLE Engineer	07 ORGANIZATION UBS&HW	08 TELEPHONE NO. 801) 533-4145
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09 OTHER INSPECTORS Joel Hebdon	10 TITLE Geologist	11 ORGANIZATION UBS&HW	12 TELEPHONE NO. 801) 533-4145
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James Salmon	Scientist	UBS&HW	801) 533-4145
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13 SITE REPRESENTATIVES INTERVIEWED Gerald Koontz	14 TITLE Manager	15 ADDRESS 950 West 400 South Centerville, UT 84014	16 TELEPHONE NO. 801) 292-4461
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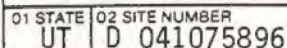
			()
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17 ACCESS GAINED BY (Check one) <input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT	18 TIME OF INSPECTION 0955	19 WEATHER CONDITIONS Sunny 82°F, 45% humidity and light winds from southwest
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IV. INFORMATION AVAILABLE FROM

01 CONTACT Muhammad Slam	02 OF (Agency/Organization) Utah Health Dept. Bureau of Solid & Hazardous Waste	03 TELEPHONE NO. (801) 533-4145
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04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Loretta Pickerell	05 AGENCY Ut. Hlth. Dept.	06 ORGANIZATION Bureau of Solid & Hazardous Waste	07 TELEPHONE NO. 801-533-4145	08 DATE 07 12, 85 MONTH DAY YEAR
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<input checked="" type="checkbox"/> A. TOXIC	<input type="checkbox"/> E. SOLUBLE	<input type="checkbox"/> I. HIGHLY VOLATILE
<input checked="" type="checkbox"/> B. CORROSIVE	<input type="checkbox"/> F. INFECTIOUS	<input type="checkbox"/> J. EXPLOSIVE
<input type="checkbox"/> C. RADIOACTIVE	<input type="checkbox"/> G. FLAMMABLE	<input type="checkbox"/> K. REACTIVE
<input checked="" type="checkbox"/> D. PERSISTENT	<input type="checkbox"/> H. IGNITABLE	<input type="checkbox"/> L. INCOMPATIBLE
		<input type="checkbox"/> M. NOT APPLICABLE

EPA FCPM 2012-13 7-81



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION
C1 STATE: UT C2 SITE NUMBER: D041075896

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 32,660
02 ☒ OBSERVED (DATE: April 1985) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Population taken from U.S. Census tract map and covers a 3 mile radius from the site. Third and fourth quarters groundwater monitoring data provided by Syro Steel indicate heavy metal contamination in downgradient wells.

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 2670
02 ☒ OBSERVED (DATE: 6/10/85) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
The surface water samples taken on June 10, 1985 indicate heavy metal contamination. Utah Division of Water Resources record indicate that surface water is being used for irrigation. There are about 1780 acres of farm land within 3 mile radius. About 2670 (1780 x 1.5) people may be affected by contamination.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not applicable at the time of assessment.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____
02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Not applicable at the time of assessment.

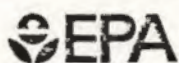
01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 4162
02 ☒ OBSERVED (DATE: Aug. 1973) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Mr. Liston (a farmer) has alleged that his livestock died after drinking water contaminated by Syro Steel. There are 4162 people (U.S. census tract) within one mile radius of site who may be affected.

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 0.7 (Acres)
02 ☒ OBSERVED (DATE: 9/26/84) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
The soil sample data provided by Syro Steel indicate heavy metal contamination. Approximately 0.7 acres of soil is contaminated (taken from site map).

01 ☒ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 32,660
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Utah Division of Water Rights record indicates that nearest private well is within 1/4 mile and the Aquifer of concern is being used for drinking water. Potential of Groundwater contamination appears high.

01 ☒ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: 100
02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Potential exist if workers come in contact with the waste and/or contaminated soil.

01 ☒ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: 4162
02 ☒ OBSERVED (DATE: Aug 1973) ☐ POTENTIAL ☒ ALLEGED
04 NARRATIVE DESCRIPTION
Mr. Liston (a farmer) in 1973 alleged that his livestock died after drinking surface water contaminated by Syro Steel. There are 4162 people in one-mile radius who could be affected by contamination.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA 02 ☒ OBSERVED (DATE: 04/02/83) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION

Utah Bureau of Water Pollution observed a major spill which occurred on-site and had flowed across the adjacent field west of the site. It caused all vegetation in its path to be killed or severely distressed.

01 ☒ K. DAMAGE TO FAUNA 02 ☒ OBSERVED (DATE: Aug. 1973) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION (include name(s) of species)

Mr. Liston (a farmer) in 1973 estimated his losses from calves and cows at \$1800.00, because of high metals in the irrigation ditch caused by Syro Steel. Farmington Bay Bird Refuge is within one mile west of the site.

01 ☒ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED

04 NARRATIVE DESCRIPTION

Potential exists for contamination of plant food for cattle, horses, sheep and/or water fowl (on bird refuge).

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☒ OBSERVED (DATE: 04/02/82) ☐ POTENTIAL ☒ ALLEGED

(Spills, Runoff, Standing liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: 4162

04 NARRATIVE DESCRIPTION

Bureau of Water Pollution observed a major spill which occurred on-site and flowed across the adjacent field. There are 4162 people (from U.S. Census Tract) within one mile radius of site.

01 ☒ N. DAMAGE TO OFFSITE PROPERTY 02 ☒ OBSERVED (DATE: 12/01/75) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION

EPA investigators (Castor & Crosby) inspected Syro Steel in December of 1975 and reported "The groundwater Table is sufficiently high to induce further contamination. The material is spreading into other areas and Syro Steel is buying property as it becomes contaminated."

01 ☒ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☒ OBSERVED (DATE: April 1974) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION

Contamination of sewer occurred in 1974 by direct discharge of spent Pickle Liquor. Contamination of drainage ditch was observed October 2, 1975. Syro Steel exceeded their limits of allowable heavy metals in drainage ditch and violated NPDES limits.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☒ OBSERVED (DATE: 1/19/76) ☐ POTENTIAL ☒ ALLEGED

04 NARRATIVE DESCRIPTION

EPA issued a Notice of Violation and Order of Compliance alleging that Syro is in violation of their NPDES permit for illegally discharging higher concentration of heavy metals into the ditch.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

III. TOTAL POPULATION POTENTIALLY AFFECTED: 32,662

IV. COMMENTS

There are 32,662 people within 3-mile radius of site. These people could be affected by the site contamination.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Bureau of Solid & Hazardous Waste files.
2. Bureau of Water Pollution Control Files
3. U.S. census tract map 1980.
4. Utah Division of Water Resources Record.
5. James Schoenfield, State Veterinarian File.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 STATE UT 02 SITE NUMBER D041075896

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED <small>(Check all that apply)</small>	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input checked="" type="checkbox"/> A. NPDES	UT0021474	4/3/74	Dec. 1976	Syro violated NPDES Permit and was issued NOV by EPA
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input checked="" type="checkbox"/> E. RCRA INTERIM STATUS	UTD041075896	1980	up to date	Undergoing closure
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE <small>(Specify)</small>				
<input type="checkbox"/> H. LOCAL <small>(Specify)</small>				
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				
<input type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE DISPOSAL <small>(Check all that apply)</small>	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT <small>(Check all that apply)</small>	05 OTHER
<input checked="" type="checkbox"/> A. SURFACE IMPOUNDMENT (2)	5,760	Tons	<input type="checkbox"/> A. INCENERATION	<input checked="" type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input type="checkbox"/> C. DRUMS, ABOVE GROUND			<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input type="checkbox"/> F. LANDFILL			<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	About 1 (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input checked="" type="checkbox"/> H. OTHER Lime Neutralization <small>(Specify)</small>	
<input type="checkbox"/> I. OTHER <small>(Specify)</small>				

07 COMMENTS

Syro Steel has two abandoned surface impoundments on-site which were operated 1966-74. Another surface Impoundment which is regulated under RCRA interim status is currently undergoing closure.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES <small>(Check one)</small>	The contaminants have migrated off-site.		
<input type="checkbox"/> A. ADEQUATE, SECURE	<input type="checkbox"/> B. MODERATE	<input checked="" type="checkbox"/> C. INADEQUATE, POOR	<input type="checkbox"/> D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Both the Surface Impoundments were unlined and the Groundwater shows contamination by heavy metals.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

The contaminants have migrated off-site.

VI. SOURCES OF INFORMATION (Cite specific references, e.g. state files, sample analysis, reports)

1. Bureau of Solid and Hazardous Waste files.
2. Bureau of Water Pollution Control files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A. ☐ B. ☒
NON-COMMUNITY C. ☐ D. ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A. ☒ B. ☐ C. ☐
D. ☒ E. ☐ F. ☐

03 DISTANCE TO SITE

A. 2 (mi)
B. 1 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ A. ONLY SOURCE FOR DRINKING ☐ B. DRINKING
(Other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION
(No other water sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available)
☐ D. NOT USED, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER 32,660

03 DISTANCE TO NEAREST DRINKING WATER WELL 1 (mi)

04 DEPTH TO GROUNDWATER

6-12 (ft)

05 DIRECTION OF GROUNDWATER FLOW

Northwest

06 DEPTH TO AQUIFER
OF CONCERN

6-12 (ft)

07 POTENTIAL YIELD
OF AQUIFER

400 GPM (gpd)

08 SOLE SOURCE AQUIFER

☒ YES ☐ NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Utah Division of Water Resources

Record indicates that there are 100 private wells within one mile radius of site.
There are 4,000 people in one mile radius.

10 RECHARGE AREA

☐ YES
☒ NO COMMENTS

11 DISCHARGE AREA

☒ YES ☐ NO COMMENTS Gradient is towards the surface

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION
DRINKING WATER SOURCE ☒ B. IRRIGATION, ECONOMICALLY
IMPORTANT RESOURCES ☐ C. COMMERCIAL, INDUSTRIAL ☐ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME: Not known at the time of assessment

AFFECTED

DISTANCE TO SITE

☐ (mi)
☐ (mi)
☐ (mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE
A. 4,000
NO. OF PERSONS

TWO (2) MILES OF SITE
B. 13,000
NO. OF PERSONS

THREE (3) MILES OF SITE
C. 32,660
NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

< 1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

400

04 DISTANCE TO NEAREST OFF-SITE BUILDING

< 1/4 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

U.S. Census Tract Map shows that there are 32,660 people within 3 mile radius of site.
The area in the vicinity of site is moderately populated.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☒ B. $10^{-4} - 10^{-6}$ cm/sec ☐ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

No bedrock has been found at this time.

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ B. RELATIVELY IMPERMEABLE ($10^{-4} - 10^{-6}$ cm/sec) ☐ C. RELATIVELY PERMEABLE ($10^{-2} - 10^{-4}$ cm/sec) ☐ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK

____ (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

____ (ft)

05 SOIL pH

6-12

06 NET PRECIPITATION

-43 (in)

07 ONE YEAR 24 HOUR RAINFALL

1.5 (in)

08 SLOPE

SITE SLOPE
3-6 %

DIRECTION OF SITE SLOPE
West

TERRAIN AVERAGE SLOPE
3-6 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE

OTHER

A. _____ (mi)

B. _____ (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

1 (mi)

ENDANGERED SPECIES: Bald Eagle, Peregrin Falcon

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS; NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. On-site (mi)

B. 1/4 (mi)

C. _____ (mi) D. 1/4 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

To the East of the site are Wasatch Mountains and city of Centerville. The Great Salt Lake is located West of the site. The site slopes 3-6% towards west.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Utah Bureau of Solid & Hazardous Waste
2. Telephone contact with U.S. Department of Interior, Endangered Species Team (801) 524-4430



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	7	James Montgomery Laboratories	Have been Analyzed
SURFACE WATER/sediments	6	Utah Health Dept. Lab	Have been Analyzed
WASTE			
AIR			
RUNOFF			
SPILL			
SCIL	5	James Montgomery Laboratories	Have been analyzed
VEGETATION			
OTHER			

2/85

8/85

5/84

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Surface Water contamination	Based upon visual observations it appears that the contaminants have migrated off-site. The Down stream Surface Water is reddish brown presumably due to the high concentration of iron and other heavy metals.

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input checked="" type="checkbox"/> GROUND <input type="checkbox"/> AERIAL	02 IN CUSTODY OF Attached with this report (copies) <small>Name of organization or individual</small>
03 MAPS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	04 LOCATION OF MAPS Attached with this report (copies)

V. OTHER FIELD DATA COLLECTED Provide narrative description

VI. SOURCES OF INFORMATION Provide name, address, and telephone number of each source

1. Data provided by Syro Steel to Utah Bureau of Solid and Hazardous Waste.
2. Utah Bureau of Solid and Hazardous Waste Files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. CURRENT OWNER(S)

PARENT COMPANY (if applicable)

01 NAME
Syro Steel Company-Western Div. 02 D+B NUMBER
041075896

05 NAME 09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)
950 West 400 South 04 SIC CODE
3444

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

05 CITY 06 STATE 07 ZIP CODE
Centerville UT 84014

12 CITY 13 STATE 14 ZIP CODE

01 NAME 02 D+B NUMBER

05 NAME 09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

12 CITY 13 STATE 14 ZIP CODE

01 NAME 02 D+B NUMBER

05 NAME 09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

12 CITY 13 STATE 14 ZIP CODE

01 NAME 02 D+B NUMBER

05 NAME 09 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

10 STREET ADDRESS (P.O. Box, RFD #, etc.) 11 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

12 CITY 13 STATE 14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

IV. REALTY OWNER(S) (If applicable: list most recent first)

01 NAME thru 1971
National Galvanizing Co. 02 D+B NUMBER

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

05 CITY 06 STATE 07 ZIP CODE

01 NAME 02 D+B NUMBER

01 NAME 02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.) 04 SIC CODE

05 CITY 06 STATE 07 ZIP CODE

05 CITY 06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

1. Utah Bureau of Solid and Hazardous Waste files.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER				

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

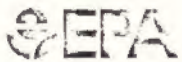
PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

01 NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE		
05 CITY	06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. ON-SITE GENERATOR

01 NAME Syro Steel Co.-Western Div.		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 950 West 400 South		04 SIC CODE	
05 CITY Centerville	06 STATE UT	07 ZIP CODE 84014	

III. OFF-SITE GENERATOR(S)

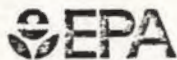
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. PAST RESPONSE ACTIVITIES

01 <input type="checkbox"/> A. WATER SUPPLY CLOSED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> D. SPILLED MATERIAL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> F. WASTE REPACKAGED 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> H. ON SITE BURIAL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> L. ENCAPSULATION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> N. CUTOFF WALLS 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____
01 <input type="checkbox"/> Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION N/A	02 DATE _____	03 AGENCY _____



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

UT D041075896

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ S. CAPPING COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

N/A

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
UT D041075896

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

1. U.S. Environmental Protection Agency issued a Notice of Violation and Compliance Order because Syro Steel violated their NPDES discharge limits.
2. Bureau of Water Pollution Control, State of Utah issued a warning letter because Syro Steel had a major spill and the spill was not reported to the appropriate authorities. The contaminants from the spill migrated off-site.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis reports.)

1. Utah Bureau of Solid and Hazardous Waste files.
2. Utah Water Pollution Control.

SITE Syro Steel Company -

OBJECTIVE: Collect sediments and surface water samples to document surface water release.

SAMPLING:

A) Groundwater Route - Number of Samples None
Location of Samples Not applicable.

Rationale for Sampling _____

B) Surface Water Route - Number of Samples 6
Location of Samples As shown on the attached site map.

Rationale for Sampling Upgradient and Downgradient samples to confirm surface water release.

C) Air Route - Number of Samples None
Location of Samples Not applicable.

Rationale for Sampling _____

D) Soil/Sediment - Number of Samples 6
Location of Samples As shown on the attached site map. Same locations where surface water samples will be taken.

Rationale for Sampling _____

E) Waste - Number of Samples None
Location of Samples _____

Rationale for Sampling Not applicable

F) Parameters Heavy Metal (Ba, Cd, Cr, Fe, Mn, Mo, Ni, Ag, Zn.)

G) Types of Sampling Equipment Sample Bottles, Trier, Stainless steel scoop, Ice chest and shenel.

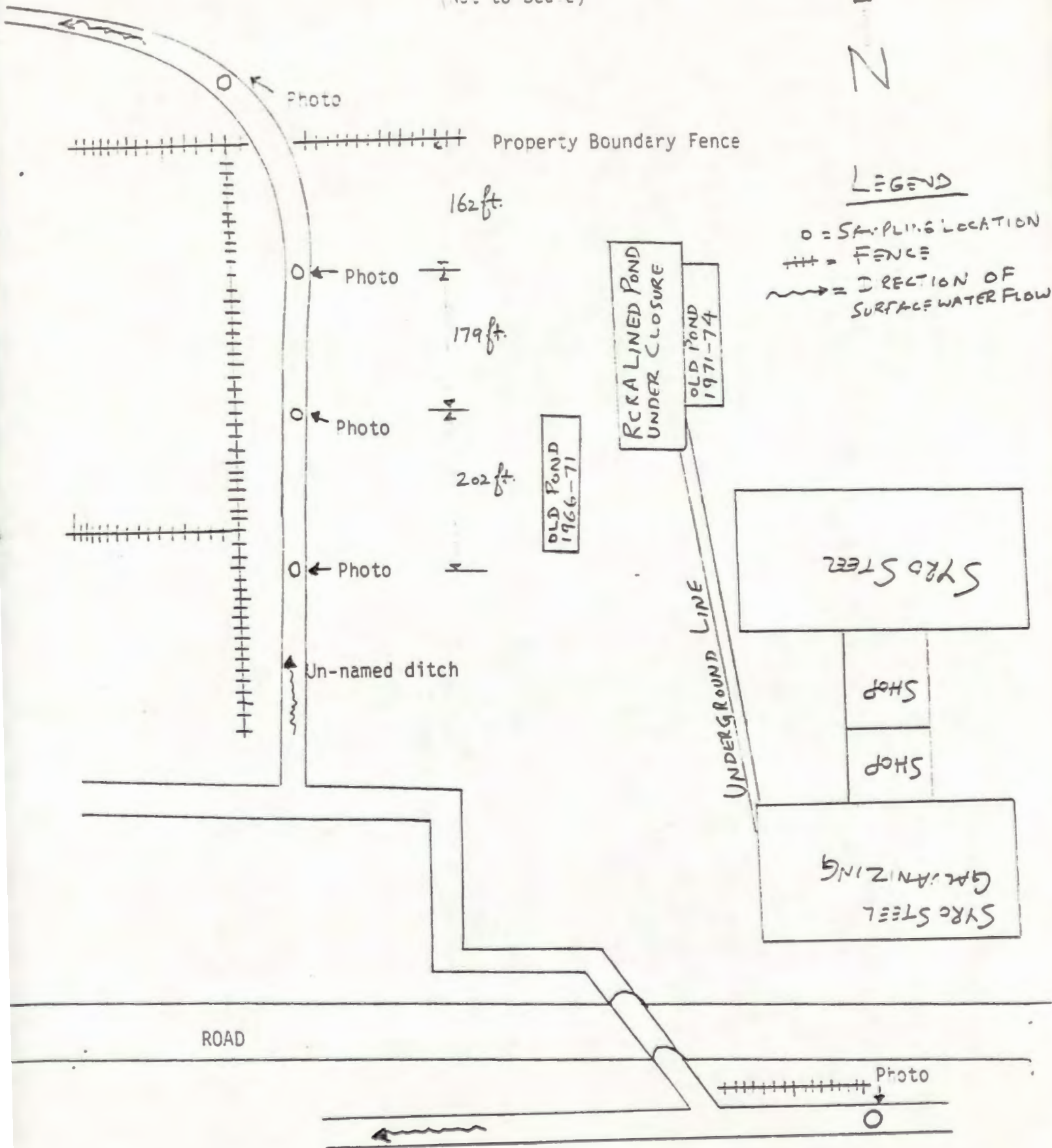
SYRO STEEL CORPORATION

(Not to Scale)

N

LEGEND

- O = SAMPLING LOCATION
- +++ = FENCE
- ~~~~~ = DIRECTION OF SURFACE WATER FLOW



SITE Syro Steel Company

PERSONNEL:

A) Number 3

B) Assignments Samplers - 2 (Joel Hebdon, James Salmon)
Record Keeping and Pictures - 1 (Muhammad Slam).

SAFETY:

A) Level of Protection - A B C D X

If Level C, what type of cartridge is to be used?

Rationale for the Level of Protection Only surface water will be sampled
which has heavy metals contamination. No organics and the exposure risk is
minimum.

B) Types of Protective Clothing and Equipment Coverall, Rubber Boots and
Gloves.

C) Types of Surveillance Equipment None

D) Decon Procedures Soap, Water, Distilled Water.

E) Rationale Required for a Change in the Level of Protection:
Upgrade Site is well characterized - not applicable.

Downgrade Not applicable.

SAMPLING REPORT

Date of Inspection: June 10, 1985

Facility: Syro Steel Company
950 West 400 South
Centerville, Utah 84014

Facility Contact: Gerald Koonz

Participants: Muhammad Slam, Utah Health Dept.
James Salmon, Utah Health Dept.
Joel Hebdon, Utah Health Dept.

Weather Conditions: Sunny, 82°F 45% humidity
and light wind from Southwest

Time In: 9:55 a.m.

Time Out: 12:30 p.m.

Report Prepared by: Muhammad Slam

NARRATIVE:

The inspection team arrived at the site and met with Syro Steel representatives. The scope and purpose of sampling were explained.

The inspection team walked along the creek to locate background and other sampling locations. One upstream and three downstream locations were selected for sampling. The upstream and one downstream locations were "off-site" of Syro property. Attachment I contains sample description and attachment II indicates sample locations. Each location was sampled for surface water and surface sediments (soil).

ATTACHMENT I

<u>Sample No.</u>	<u>Time</u>	<u>Sample Location</u>	<u>Type</u>	<u>No. of Container</u>
CW 85007	10:30	Off-site Downgradient surface sediments.	Grab	1
CW 85007A	10:30	Off-site Downgradient Surface water	Grab	2
CW 85008	10:45	On-site Downgradient Surface Sediments 1	Grab	1
CW 85008A	10:45	On-site Downgradient Surface water 1	Grab	2
CW 85009	11:01	On-site Downgradient Surface Sediments 2	Grab	1
CW 85009A	11:01	On-site Downgradient Surface Sediments 2	Grab	2
CW 85010	11:15	On-site Downgradient Surface Sediment 3	Grab	1
CW 85010A	11:15	On-site Downgradient Surface water 3	Grab	2
CW 85011	11:35	Off-site Upgradient Surface Sediment	Grab	1
CW 85011A	11:35	Off-site Upgradient Surface water	Grab	2
CW 85012	09:20	Blank	Grab	2

MS:ct
6847

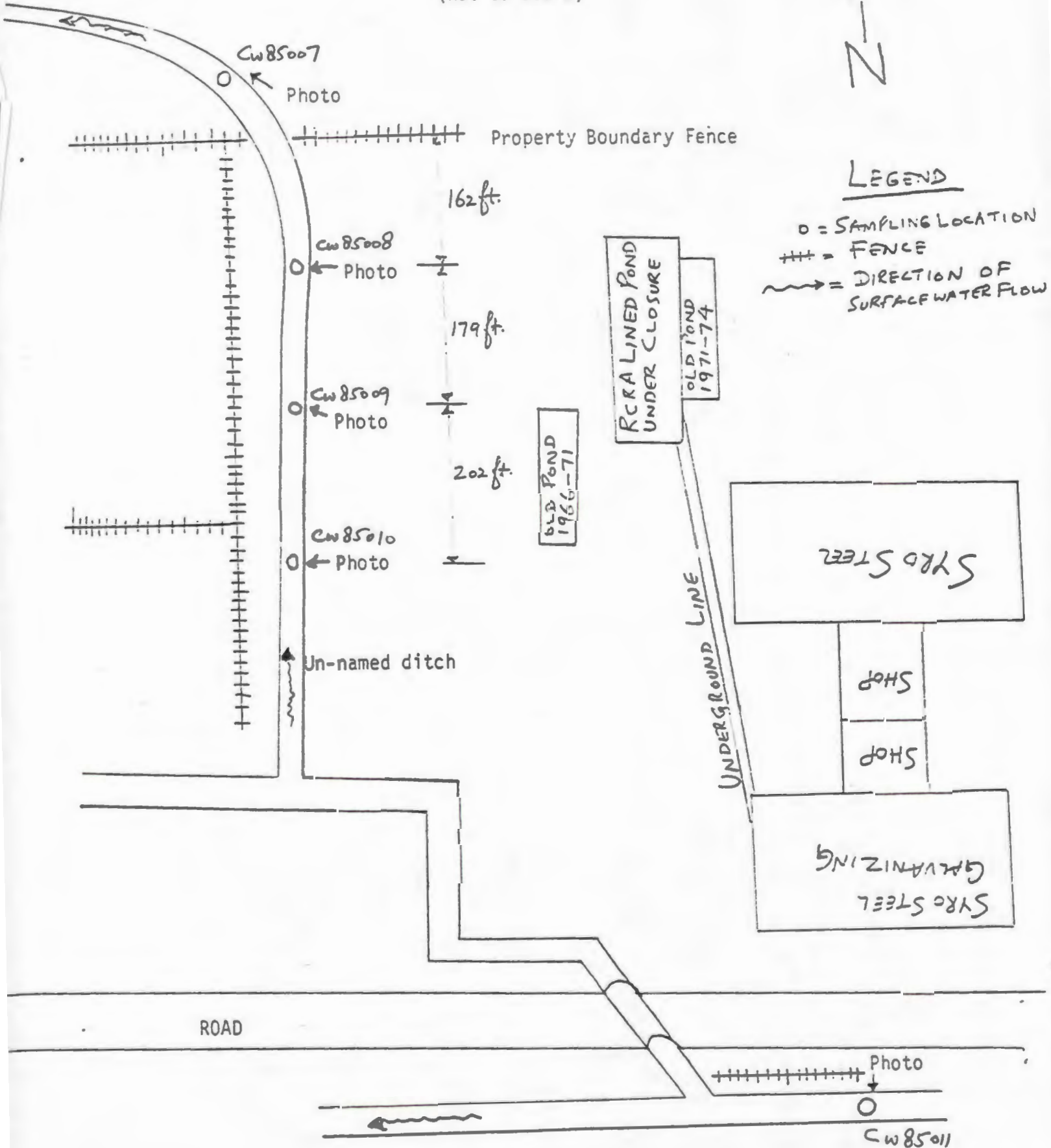
SYRO STEEL CORPORATION

(Not to Scale)



LEGEND

- O = SAMPLING LOCATION
- +++ = FENCE
- ~~~~~ = DIRECTION OF SURFACE WATER FLOW





SYRO STEEL-UPGRADIENT BACKGROUND
SAMPLE CW85011 LOOKING SOUTH
6/10/85 1135 MAS



SYRO STEEL- (11 MINUTES) CREEK JOINTS TEAM
OF SYRO WITH SYRO IN THE BACKGROUND
LOOKING EAST
6/10/85 1203 MAS



SYRO STEEL DOWNGRADIENT SAMPLE
ON SITE 3 CW85010
LOOKING WEST 6/10/85 1115 MAS



SYRO STEEL - UNNAMED CREEK DOWNSTREAM
OF SYRO - LOOKING EAST
6/10/85 - 1205 MAS



SYRO STEEL - UNNAMED CREEK
DOWNSTREAM OF SYRO WITH SYRO
IN THE BACKGROUND - LOOKING EAST
6/10/85 1201 MAS



SYRO STEEL SURFACE WATER SAMPLE ANALYSIS
June 10, 1985

	Sediments 85007	Water 85007A	Sediments 85008	Water 85008A	Sediments 85009	Water 85009A	Sediments 85010	Water 85010A	Sediments 85011	Water 85011A	Blank 85012
Barium	77.0		95.0		76.0		110.0		20.0		0.2
Cadmium	0.55	0.02	2.0	0.02	7.5	0.02	0.4	0.02	0.1	0.02	0.02
Chromium	36.0	0.2	68.0	0.2	86.0	0.2	60.0	0.33	64.0	0.2	0.2
Copper	40,000	200	116,000	290.0	67,000.0	290.0	99,000.00	520.0	20,000	8.0	0.2 0.21
Lead	27.0	0.24	67.0	0.2	76.0	0.2	77.0	0.22	15.0	0.2	0.2
Manganese	260.0		250		210.0		310.0		630.0		0.1
Molybdenum	5.0		6.0		5.5		8.3		6.2		0.4
Nickel	23.0		34.0		32.0		26.0		22.0		0.1
Silver	0.78		1.3		1.0		1.3		1.0		0.02
Zinc	4700.0	34.0	890.0	37.6	8,200.0	53.0	5700.0	46.0	51.0	0.1	.053

All concentrations are expressed in mg/l.

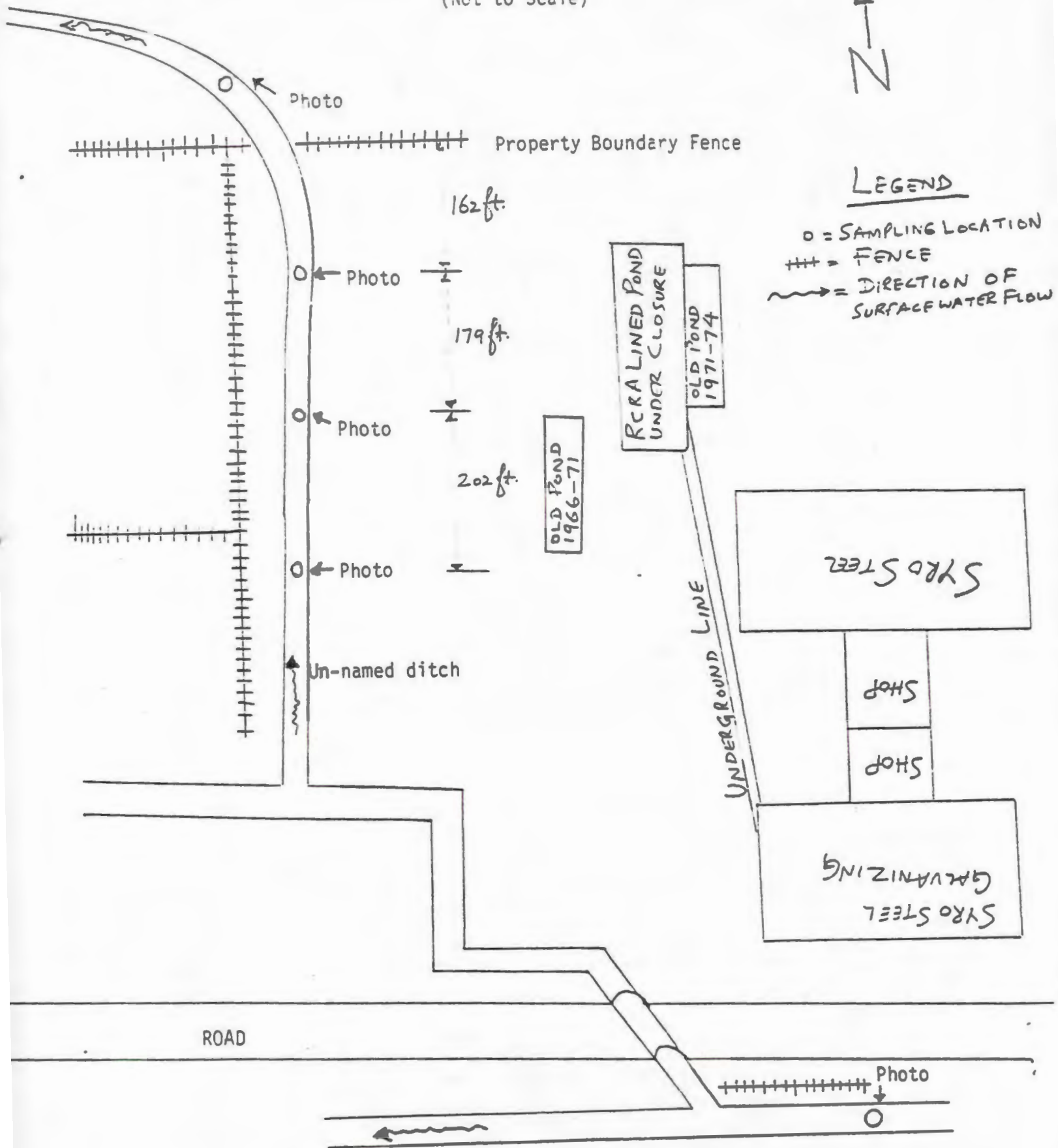
SYRO STEEL CORPORATION

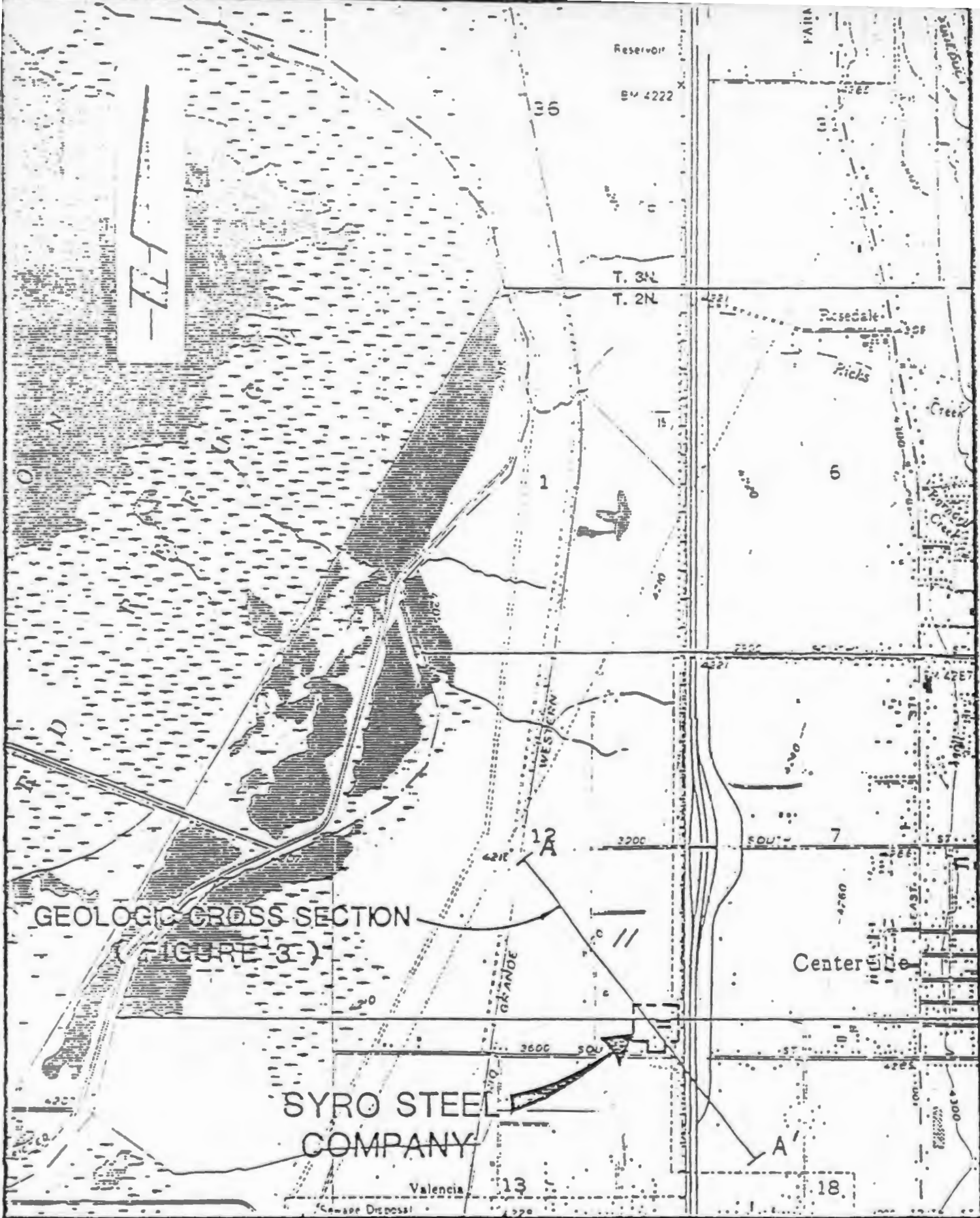
(Not to Scale)



LEGEND

- O = SAMPLING LOCATION
- +++ = FENCE
- ~~~~~> = DIRECTION OF SURFACE WATER FLOW





USGS FARMINGTON LOCATION MAP
QUADRANGLE MAP
7.5' SERIES

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2535
Field No. CW 85007 ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 10 Time Collected 10:30 County Davis
year/month/day 24 hr. clock
Sample collected by Hebdon, Slam Sample Type Soft Mud
Facility from which sample was collected Syno Steel
Exact description of sampling point Offsite downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145

Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☒ pH _____
☐ Solids _____ %
☒ T, SO₄⁻² _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

* ☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
* ☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
* ☐ or all 18 Metals listed below
* ☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☒ Arsenic _____ PPM
* ☒ Barium 77 PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium 0.55 PPM
* ☒ Chromium 36 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 40,000 PPM
* ☒ Lead 27 PPM
* ☒ Manganese 260 PPM
* ☒ Mercury _____ PPM
* ☒ Molybdenum <5 PPM
* ☒ Nickel 23 PPM
* ☒ Selenium _____ PPM
* ☒ Silver 0.78 PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 4700 PPM
* ☐ _____ PPM

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

Rev. 3/82
Field No. **CW85007A**

☒ TC ☒ TM ☐ Nut
☐ PC ☐ PM ☐ BOD

Pest.
Rad.
Bact.
Spec.

Date Recd.:
Received By:

UTAH STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. **2536**

Storet No. Water Syst. No. Source No.
Date Collected **702** Time Collected **1030** Water Rights No. **707**
yr. mo. dy. 24-hour clock
Exact Description of sampling Point
OFFSITE DOWNGRADE
SYRO STEEL
Supply Owned by **SYRO STEEL** Sample Type **712**
Sample Collected by **J HEBRON M SLAM**
SEND REPORT TO: Phone **715**
JIM SALMON BSHWM
zip code **648**

Sample Source **03** County **04**
01 Spring 14 Other 01 Beaver 16 Plute
02 Well 15 Tunnel 02 Box Elder 17 Rich
03 Stream 16 Artesian 03 Cache 18 Salt Lake
04 Lake well 04 Carbon 19 San Juan
05 Dist. syst. 19 Swimming 05 Daggett 20 Sanpete
06 Effluent pool 06 Davis 21 Sevier
07 Storm sewer 07 Duchesne 22 Summit
08 Iron 08 Emery 23 Tooele
09 Garland 24 Uintah
10 Grand 25 Utah
11 Iron 26 Wasatch
12 Juab 27 Washington
13 Kane 28 Wayne
14 Millard 29 Weber
15 Morgan
Current use **708**
Proposed use **709**
1. Culinary
2. Agriculture
3. Industrial
4. Other
Cost Code **365** **770**

2 Temperature (°C) **650** pH **782** WASTEWATER ANALYSIS BACT. LAB. No.
B.O.D.₅ **794** T.O.C. **671** M.P.N. Total Coliforms/100ml **658**
Tot. Sus. Solids **787** C.O.D. **777** M.P.N. Fecal Coliforms/100ml **657**
NO₂+NO₃-N **602** Cyanide **775** Fecal Strep C/100ml. **656**
T.K.N. **778** Phenolics **783** M.F. Total Coliforms/100ml. **654**
Oil & Grease **780** Sulfide **672** M.F. Fecal Coliforms/100ml. **655**
Plate Count-Orig./ml. **599**

3 Filtered Unfiltered 4 CHEMICAL ANALYSIS pH, units **7.4**
me/l CATIONS mg/l ug/l (ppb) me/l ANIONS mg/l
Ammonia as N **722** Bicarbonate **204** **758**
Arsenic **723** Carbon Dioxide **12** **759**
Barium **724** Carbonate **0** **760**
Boron **725** Chloride **763**
Cadmium **727** CO₂ Solids **100**
Calcium **728** Fluoride **0.32** **765**
Chromium **729** Hydroxide **00** **767**
Chromium, Hex. as Cr **730** Nitrate as N **605**
Copper **732** Nitrite as N **606**
Iron, dissolved **733** Phosphorus, Ortho as P **607**
Lead **734** Silica, dissolved as SiO₂ **750**
Magnesium **737** Sulfate **772**
Manganese **738**
Nickel **740**
Potassium **742**
Selenium **743**
Silver **744**
Sodium **745**
Zinc **749**
TOTAL CATIONS
Sp. Cond. & mhos/cm. **665** **762**
TDS @ 180°C **786**
TOTAL ANIONS GRAND TOTAL
Tot. Phosphorus **785**
Total Alk. as CaCO₃ **167** **752**
T. Hdns. as CaCO₃ **754**
Surfactant as MBAS **773**
Turbidity, as NTU **757**
Sp. Gravity **608**
5 TOTAL METALS ANALYSIS
CATIONS mg/l ug/l (ppb)
Aluminum **800**
Arsenic **660**
Barium **661**
Beryllium **801**
Cadmium **662**
Chromium **663**
Cobalt **804**
Copper **664**
Gold **700**
Iron **755**
Lead **665**
Manganese **666**
Mercury **739**
Molybdenum **802**
Nickel **667**
Selenium **668**
Silver **669**
Uranium **601**
Vanadium **803**
Zinc **670**

6 RADIOLOGICS INTERPRETATION OF ANALYSES:
Alpha, gross **621** **89** Sr **633**
Beta, gross **623** **131** I **635**
Tritium, ³H **625** **134** Cs **637**
226 Radium **627** **137** Cs **639**
228 Radium **629**
90 Sr **631**
Remarks:
Based on State Standards, this sample was:
B.O.D.₅
Tot. Sus. Solids
M.P.N. Total Coliform.
M.P.N. Fecal Coliform.
Analyses Approved By: Date: By: ENVIRONMENTAL HEALTH

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2536
Field No. CW 85007A ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 10 Time Collected 10:30 County Davis
Sample collected by Hebdon, Slam Sample Type Water
Facility from which sample was collected Syro Steel
Exact description of sampling point Offsite downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145

Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☐ pH _____
☐ Solids _____ %
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

* ☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
* ☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
* ☐ or all 18 Metals listed below
* ☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☐ Arsenic _____ PPM
* ☐ Barium _____ PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <.02 PPM
* ☒ Chromium <.2 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 200. PPM
* ☒ Lead 0.24 PPM
* ☐ Manganese _____ PPM
* ☐ Mercury _____ PPM
* ☐ Molybdenum _____ PPM
* ☐ Nickel _____ PPM
* ☐ Selenium _____ PPM
* ☐ Silver _____ PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 34. PPM
* ☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2537
Field No. CW 85008 ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 10 Time Collected 10:45 County Davis
year/month/day 24 hr. clock
Sample collected by Salmon, Hebdan Sample Type Mud
Facility from which sample was collected Syra Steet
Exact description of sampling point ONSITE 1 Downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☒ pH _____
☐ Solids _____ %
☒ T. SO₄⁻² _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

☐ B Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ or 12 Metals (The B above + Cu, Fe, Mn, Zn)
☐ or all 18 Metals listed below
☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☒ Arsenic _____ PPM
* ☒ Barium 95, PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium 2.0 PPM
* ☒ Chromium 68, PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 116,000, PPM
* ☒ Lead 67, PPM
* ☒ Manganese 250, PPM
* ☒ Mercury _____ PPM
* ☒ Molybdenum 46, PPM
* ☒ Nickel 34, PPM
* ☒ Selenium _____ PPM
* ☒ Silver 1.3 PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 8900, PPM
* ☐ _____ PPM

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

Rev. 3/82
Field No. **CU85008A**TC ☐ TM ☐ Nut ☐
PC ☐ PM ☐ BOD ☐Pest. ☐
Rad. ☐
Bact. ☐
Spec. ☐

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH
WATER ANALYSES

1005-02538

Sample No. 707

Storet No. _____ Water Syst. No. Source No. _____

Date Collected **702** Time Collected **1045** Water Rights No. **707**

yr. mo. dy. 24-hour clock

Exact Description of Sampling Point

ONSITE DOWNGRADIENT **SYRO STEEL** **646**

Supply Owned by _____ Sample Type _____

SYRO STEEL **712** **710**

Sample Collected by _____

SEND REPORT TO: _____ Phone _____

_____ **715**_____ **648**_____ **717**

zip code _____

Sample Source **03** **719** County **01** **611**

01 Spring 14 Other 02 Well 15 Tunnel 03 Stream 18 Artesian 04 Lake well 06 Dist. syst. 19 Swimming 07 Effluent pool 08 Storm sewer

01 Beaver 16 Plute 02 Box Elder 17 Rich 03 Cache 18 Salt Lake 04 Carbon 19 San Juan 05 Dagbell 20 Sanpete 06 Davis 21 Sevier 07 Duchesne 22 Summit 08 Emery 23 Tooele 09 Garfield 24 Uintah 10 Grand 25 Utah 11 Iron 26 Wasatch 12 Juab 27 Washington 13 Kane 28 Wayne 14 Millard 29 Weber

Current use: **708** Proposed use: **709**

1. Culinary 2. Agriculture 3. Industrial 4. Other

Cost Code **770**

1 FIELD TESTS

Temperature (°C) **792** CO₂, mg/l **572**D.O., mg/l **793** Depth, m **609**Sp. Cond. μ mhos **653** Cl Resid., mg/l **753**pH **651** Flow, MGD **652**Sp. Gravity **608** Flow, GPM **604**Transparency, m **649** Flow cfs **659**2 Temperature (°C) **650** pH **782** WASTEWATER ANALYSIS BACT. LAB. No. _____B.O.D.₅ **794** T.O.C. **671** M.P.N. Total Coliforms/100ml **658**Tot. Sus. Solids **787** C.O.D. **777** M.P.N. Fecal Coliforms/100ml **657**NO₂+NO₃-N **602** Cyanide **775** Fecal Strep C/100ml. **656**T.K.N. **778** Phenolics **783** M.F. Total Coliforms/100ml. **654**Oil & Grease **780** Sulfide **672** M.F. Fecal Coliforms/100ml. **655**Plate Count-Orig./ml. **599**3 Filtered Unfiltered 4 CHEMICAL ANALYSIS pH, units **7.3**

me/l CATIONS mg/l ug/l (ppb) me/l ANIONS mg/l TOTAL METALS ANALYSIS

Ammonia as N **722** Bicarbonate **189** **758** Aluminum **800**Arsenic **723** Carbon Dioxide **15** **759** Arsenic **660**Barium **724** Carbonate **0** **760** Barium **661**Boron **725** Chloride **763** Beryllium **801**Cadmium **727** CO₂ Solids **92** **765** Cadmium **662**Calcium **728** Fluoride **054** **767** Chromium **663**Chromium **729** Hydroxide **00** **605** Cobalt **804**Chromium, Max. as Cr **730** Nitrate as N **606** Copper **664**Copper **732** Nitrite as N **607** Gold **700**Iron, dissolved **733** Phosphorus, Ortho as P **750** Iron **755**Lead **734** Silica, dissolved as SiO₂ **772** Lead **665**Magnesium **737** Sulfate **772** Manganese **666**Manganese **738** TOTAL ANIONS **785** Mercury **739**Nickel **740** GRAND TOTAL **752** Molybdenum **802**Potassium **742** Tot. Phosphorus **754** Nickel **667**Selenium **743** Total Alk. as CaCO₃ **757** Selenium **668**Silver **744** T. Hdns. as CaCO₃ **773** Silver **669**Sodium **745** Surfactant as MBAS **757** Uranium **601**Zinc **749** Turbidity, as NTU **757** Vanadium **803**TOTAL CATIONS _____ Sp. Gravity **608** Zinc **670**Sp. Cond. μ mhos/cm. **645** **762**TDS @ 180°C **786**

6 RADIOLOGICS INTERPRETATION OF ANALYSES: Based on State Standards, this sample was:

Alpha, gross **621** **89** Sr **633** Remarks: _____Beta, gross **623** **131** I **635** _____Tritium, ³H **625** **134** Cs **637** _____²²⁶Radium **627** **137** Cs **639** _____²²⁸Radium **629** _____⁹⁰Sr **631** _____

Analyses Approved By: _____ Date: _____

By _____ ENVIRONMENTAL HEALTH

B.O.D.₅

Tot. Sus. Solids

M.P.N. Total Coliform.

M.P.N. Fecal Coliform.

Satisfactory

Conditional

Unsatisfactory

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 852538
Field No. CW85008A ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 10 Time Collected 10:45 County Davis
Sample collected by (no entry) 24 hr. clock Sample Type Water
Facility from which sample was collected Syno Steel
Exact description of sampling point Onsite 1 downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145

Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☐ pH _____
☐ Solids _____ %
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS
check one of the following
* ☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
* ☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
* ☐ or all 18 Metals listed below
* ☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☐ Arsenic _____ PPM
* ☐ Barium _____ PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <.02 PPM
* ☒ Chromium <.2 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 290. PPM
* ☒ Lead <.2 PPM
* ☐ Manganese _____ PPM
* ☐ Mercury _____ PPM
* ☐ Molybdenum _____ PPM
* ☐ Nickel _____ PPM
* ☐ Selenium _____ PPM
* ☐ Silver _____ PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 37.6 PPM
* ☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

HW-5 6/85

UTAH STATE HEALTH LABORATORY
44 Mel al Dr. SLC, Utah 84113 (801) 3-6131ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2539Field No. CW 85009 ☐ Known Hazardous Waste ☐ Unknown MaterialDate Collected 85 06 10 Time Collected 11:01 County Davis
year/month/day 24 hr. clockSample collected by Salmon, Heddon Sample Type MudFacility from which sample was collected Syro SteelExact description of sampling point Onsite 2 downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☒ pH _____
☐ Solids _____ %
☒ T, SO₄⁻² _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
☐ or all 18 Metals listed below
☒ or only those Metals checked below

<input type="checkbox"/> Aluminum	_____	PPM
<input checked="" type="checkbox"/> Arsenic	_____	PPM
<input checked="" type="checkbox"/> Barium	<u>76.</u>	PPM
<input type="checkbox"/> Beryllium	_____	PPM
<input checked="" type="checkbox"/> Cadmium	<u>7.5</u>	PPM
<input checked="" type="checkbox"/> Chromium	<u>86.</u>	PPM
<input type="checkbox"/> Cobalt	_____	PPM
<input type="checkbox"/> Copper	_____	PPM
<input checked="" type="checkbox"/> Iron	<u>67,000.</u>	PPM
<input checked="" type="checkbox"/> Lead	<u>76.</u>	PPM
<input checked="" type="checkbox"/> Manganese	<u>210.</u>	PPM
<input checked="" type="checkbox"/> Mercury	_____	PPM
<input checked="" type="checkbox"/> Molybdenum	<u>5.5</u>	PPM
<input checked="" type="checkbox"/> Nickel	<u>32.</u>	PPM
<input checked="" type="checkbox"/> Selenium	_____	PPM
<input checked="" type="checkbox"/> Silver	<u>1.0</u>	PPM
<input type="checkbox"/> Vanadium	_____	PPM
<input checked="" type="checkbox"/> Zinc	<u>8,200.</u>	PPM
<input type="checkbox"/> _____	_____	PPM

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

TC	TM	Nut
PC	PM	BOD

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No.

2540

Storet No.																Water Syst. No. Source No.															
<div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div>																<div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div>															
Date Collected								Time Collected								Water Rights No.															
<div style="border: 1px solid black; padding: 2px;">830610</div> <div style="font-size: small;">yr. mo. dy.</div>								<div style="border: 1px solid black; padding: 2px;">1101</div> <div style="font-size: small;">24-hour clock</div>								<div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div> <div style="border: 1px solid black; height: 20px;"></div>															
Exact Description of sampling Point																															
<div style="border: 1px solid black; padding: 2px;">ONSITE 2 DOWN GRADIENT SYRO STEEL</div>																															
Supply Owned by																Sample Type															
<div style="border: 1px solid black; padding: 2px;">SYRO STEEL</div>																<div style="border: 1px solid black; padding: 2px;"></div>															
Sample Collected by																															
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SEND REPORT TO:																Phone															
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zip code																															

02	Sample Source	06	County	Current use	708
719		612		Proposed use	709
01 Spring	14 Other	01 Beaver	16 Plute	1. Culinary	
02 Well	15 Tunnel	02 Box Elder	17 Rich	2. Agriculture	
03 Stream	18 Artesian	03 Cache	18 Salt Lake	3. Industrial	
04 Lake	well	04 Carbon	19 San Juan	4. Other	
06 Dist.syst.	19 Swimming	05 Daggett	20 Sanpete		
07 Effluent	pool	06 Davis	21 Sevier		
08 Storm	sewer	07 Duchesne	22 Summit		
		08 Emery	23 Toole		
		09 Garfield	24 Uintah		
		10 Grand	25 Utah		
		11 Iron	26 Wasatch		
		12 Juab	27 Washington		
		13 Kane	28 Wayne		
		14 Millard	29 Weber		
		15 Morgan			
				Cost Code	77

2	Temperature (°C)	650	pH	782	WASTEWATER ANALYSIS		BACT. LAB. No.	
		mg/l		mg/l				
<input type="checkbox"/>	B.O.D. ₅	794	<input type="checkbox"/>	T.O.C.	671	<input type="checkbox"/>	M.P.N. Total Coliforms/100ml	658
<input type="checkbox"/>	Tot. Sus. Solids	787	<input type="checkbox"/>	C.O.D.	777	<input type="checkbox"/>	M.P.N. Fecal Coliforms/100ml	657
<input type="checkbox"/>	NO ₂ +NO ₃ .N	602	<input type="checkbox"/>	Cyanide	775	<input type="checkbox"/>	Fecal Strep C/100ml.	656
<input type="checkbox"/>	T.K.N.	778	<input type="checkbox"/>	Phenolics	783	<input type="checkbox"/>	M.F. Total Coliforms/100ml.	654
<input type="checkbox"/>	Oil & Grease	780	<input type="checkbox"/>	Sulfide	672	<input type="checkbox"/>	M.F. Fecal Coliforms/100ml.	655
						<input type="checkbox"/>	Plate Count-Org./ml.	599

[illegible]

6		RADIOLOGICS										
		BC/T-g					BC/T-g					
<input type="checkbox"/>	Alpha, gross	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	621	<input type="checkbox"/>	89	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	633
<input type="checkbox"/>	Beta, gross	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	623	<input type="checkbox"/>	131	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	635
<input type="checkbox"/>	Tritium, ³ H	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	625	<input type="checkbox"/>	134	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	637
<input type="checkbox"/>	226 Radium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	627	<input type="checkbox"/>	137	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	639
<input type="checkbox"/>	228 Radium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	629	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	90Sr	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	631	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

INTERPRETATION OF ANALYSES: Remarks:	Based on State Standards, this sample was:	Satisfactory	Conditional	Unsatisfactory
	B.O.D. ₅			
	Tot. Sus. Solids			
	M.P.N. Total Coliform.			
	M.P.N. Fecal Coliform.			

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2540
Field No. CW 85009A ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 10 Time Collected 11:01 County Davis
Sample collected by (No Entry) 24 hr. clock Sample Type Water
Facility from which sample was collected Syco Steel
Exact description of sampling point Onsite 2, down gradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☐ pH _____
☐ Solids _____ %
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
☐ or all 18 Metals listed below
☐ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☐ Arsenic _____ PPM
* ☐ Barium _____ PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <.02 PPM
* ☒ Chromium <.2 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 290. PPM
* ☒ Lead <.2 PPM
* ☐ Manganese _____ PPM
* ☐ Mercury _____ PPM
* ☐ Molybdenum _____ PPM
* ☐ Nickel _____ PPM
* ☐ Selenium _____ PPM
* ☐ Silver _____ PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 53, PPM
* ☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2541

Field No. CW 85010 ☐ Known Hazardous Waste ☐ Unknown Material

Date Collected 85 06 10 Time Collected 11:15 County Davis
year/month/day 24 hr. clock

Sample collected by Salmon, Hebden Sample Type Mud

Facility from which sample was collected Syco Steel

Exact description of sampling point onsite 3 downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145

Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

<input type="checkbox"/> Oil and Grease	_____ PPM
<input type="checkbox"/> T.K.N.	_____ PPM
<input type="checkbox"/> Reactive HCN	_____ PPM
<input type="checkbox"/> Reactive H ₂ S	_____ PPM
<input checked="" type="checkbox"/> pH	_____
<input type="checkbox"/> Solids	_____ %
<input checked="" type="checkbox"/> <u>T. SO₄⁻²</u>	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____
<input type="checkbox"/> _____	_____

TOTAL METALS

check one of the following

Check one of the following

☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)

☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)

☐ or all 18 Metals listed below

☒ or only those Metals checked below

<input type="checkbox"/> Aluminum	_____	PPM
<input checked="" type="checkbox"/> Arsenic	_____	PPM
<input checked="" type="checkbox"/> Barium	<u>110.</u>	PPM
<input type="checkbox"/> Beryllium	_____	PPM
<input checked="" type="checkbox"/> Cadmium	<u><.4</u>	PPM
<input checked="" type="checkbox"/> Chromium	<u>60.</u>	PPM
<input type="checkbox"/> Cobalt	_____	PPM
<input type="checkbox"/> Copper	_____	PPM
<input checked="" type="checkbox"/> Iron	<u>99,000.</u>	PPM
<input checked="" type="checkbox"/> Lead	<u>77.</u>	PPM
<input checked="" type="checkbox"/> Manganese	<u>310.</u>	PPM
<input checked="" type="checkbox"/> Mercury	_____	PPM
<input checked="" type="checkbox"/> Molybdenum	<u>8.3</u>	PPM
<input checked="" type="checkbox"/> Nickel	<u>26.</u>	PPM
<input checked="" type="checkbox"/> Selenium	_____	PPM
<input checked="" type="checkbox"/> Silver	<u>1.3</u>	PPM
<input type="checkbox"/> Vanadium	_____	PPM
<input checked="" type="checkbox"/> Zinc	<u>5700.</u>	PPM
<input type="checkbox"/> _____	_____	PPM

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

Rev. 3/82
Field No. **CW 85010A**☐ TC ☐ TM ☐ Nut ☐ BOD
☐ PC ☐ PM ☐ BODPest.
Rad.
Bact.
Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH

WATER ANALYSES

Sample No. **2542**

Storet No. _____ Water Syst. No. _____ Source No. _____

Date Collected **8/5/85** Time Collected **11:15** Water Rights No. _____

yr. mo. dy. 24-hour clock

Exact Description of Sampling Point

ON SITE 3 DOWN GRADIENT**SYRO STEEL**

Supply Owned by _____ Sample Type _____

SYRO STEEL

Sample Collected by _____

SEND REPORT TO: _____ Phone _____

Sample Source _____ County _____

01 Spring 14 Other 611 Beaver 16 Pute

02 Well 15 Tunnel 02 Box Elder 17 Rich

03 Stream 18 Artesian 03 Cache 18 Salt Lake

04 Lake well 04 Carbon 19 San Juan

05 Effluent 05 Dappelt 20 Sanpete

06 Storm 06 Lake 21 Sevier

07 Effluent 07 Dist. syst. 19 Swimming pool 07 Duchesne 22 Summit

08 Storm 08 Storm 08 Emery 23 Tooele

09 Garfield 24 Uintah

10 Grand 25 Utah

11 Iron 26 Wasatch

12 Juab 27 Washington

13 Kane 28 Wayne

14 Millard 29 Weber

15 Morgan

Current use: _____ 706

Proposed use: _____ 709

1. Culinary

2. Agriculture

3. Industrial

4. Other

Cost Code _____ 770

2 Temperature (°C) _____ 650 pH _____ 782 WASTEWATER ANALYSIS BACT. LAB. No. _____

B.O.D.₅ _____ 794 T.O.C. _____ 671

Tot. Sus. Solids _____ 787 C.O.D. _____ 777

NO₂+NO₃-N _____ 602 Cyanide _____ 775

T.K.N. _____ 778 Phenolics _____ 783

Oil & Grease _____ 780 Sulfide _____ 672

M.P.N. Total Coliforms/100ml _____ 658

M.P.N. Fecal Coliforms/100ml _____ 657

Fecal Strep C/100ml. _____ 656

M.F. Total Coliforms/100ml. _____ 654

M.F. Fecal Coliforms/100ml. _____ 655

Plate Count-Orig./ml. _____ 599

3 Filtered _____ Unfiltered _____

me/l CATIONS mg/l ug/l (ppb) 722

Ammonia as N _____ 723

Arsenic _____ 724

Barium _____ 725

Boron _____ 726

Cadmium _____ 727

Calcium _____ 728

Chromium _____ 729

Chromium, Hex. as Cr _____ 730

Copper _____ 731

Iron, dissolved _____ 732

Lead _____ 733

Magnesium _____ 734

Manganese _____ 735

Nickel _____ 736

Potassium _____ 737

Selenium _____ 738

Silver _____ 739

Sodium _____ 740

Zinc _____ 741

TOTAL CATIONS _____

Sp. Cond. μ mhos/cm. _____ 762

TDS @ 18°C _____ 786

4 CHEMICAL ANALYSIS pH, units **7.3**

me/l ANIONS mg/l

Bicarbonate _____ 758

Carbon Dioxide _____ 759

Carbonate _____ 760

Chloride _____ 761

CO₂ Solids _____ 762

Fluoride _____ 763

Hydroxide _____ 764

Nitrate as N _____ 765

Nitrite as N _____ 766

Phosphorus, Ortho as P _____ 767

Silica, dissolved as SiO₂ _____ 768

Sulfate _____ 769

TOTAL ANIONS _____

GRAND TOTAL _____

Tot. Phosphorus _____ 770

Total Alk. as CaCO₃ _____ 771T. Hdns. as CaCO₃ _____ 772

Surfactant as MBAS _____ 773

Turbidity, as NTU _____ 774

Sp. Gravity _____ 775

6 RADIOLOGICS

Alpha, gross _____ 621 _____ 89Sr _____ 633

Beta, gross _____ 622 _____ 131I _____ 634

Tritium, ³H _____ 623 _____ 134Cs _____ 635

226 Radium _____ 624 _____ 137Cs _____ 636

228 Radium _____ 625 _____ _____ 637

90Sr _____ 626 _____ _____ 638

_____ 627 _____ _____ 639

_____ 628 _____ _____

_____ 629 _____ _____

_____ 630 _____ _____

_____ 631 _____ _____

INTERPRETATION OF ANALYSES:

Remarks:

Based on State Standards,
this sample was:B.O.D.₅

Tot. Sus. Solids

M.P.N. Total Coliform.

M.P.N. Fecal Coliform.

Satisfactory
Conditional
Unsatisfactory

Analyses Approved By: _____

Date: _____

By _____

ENVIRONMENTAL HEALTH

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2542Field No. CW85010A ☐ Known Hazardous Waste ☐ Unknown MaterialDate Collected 85 06 10 Time Collected 11:15 County Davis
year/month/day 24 hr. clockSample collected by (NO ENTRY) Sample Type WaterFacility from which sample was collected Syro SteelExact description of sampling point Onsite 3 downgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☐ pH _____
☐ Solids _____ %
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

* ☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
* ☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
* ☐ or all 18 Metals listed below
* ☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☐ Arsenic _____ PPM
* ☐ Barium _____ PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <.02 PPM
* ☒ Chromium 0.33 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 520. PPM
* ☒ Lead 0.22 PPM
* ☐ Manganese _____ PPM
* ☐ Mercury _____ PPM
* ☐ Molybdenum _____ PPM
* ☐ Nickel _____ PPM
* ☐ Selenium _____ PPM
* ☐ Silver _____ PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 46. PPM
* ☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

ENVIRONMENTAL CHEMISTRY

TOTAL METALS AND OTHER ANALYSES

LAB NUMBER 85-2543Field No. CW 85011☐ Known Hazardous Waste☐ Unknown MaterialDate Collected 85 06 10
year/month/dayTime Collected 11:35
24 hr. clockCounty DavisSample collected by Salmon, HebdonSample Type MudFacility from which sample was collected Syco SteelExact description of sampling point Offsite upgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☒ pH _____
☐ Solids _____ %
☒ T, SO₄⁻² _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

* ☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
* ☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
* ☐ or all 18 Metals listed below
* ☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☒ Arsenic _____ PPM
* ☒ Barium <20. PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <1 PPM
* ☒ Chromium 64. PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 20,000. PPM
* ☒ Lead 15. PPM
* ☒ Manganese 630. PPM
* ☒ Mercury _____ PPM
* ☒ Molybdenum 6.2 PPM
* ☒ Nickel 22. PPM
* ☒ Selenium _____ PPM
* ☒ Silver 1.0 PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 51. PPM
* ☐ _____ PPM

Results are: ☒ Dry weight basis, ☐ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

Rev. 3/82
Field No. **CW8500**

☒ TC ☒ TM ☐ Nut ☐ Rad.
☐ PC ☐ PM ☐ BOD ☐ Spec.

Pest.
Rad.
Bact.
Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. **2544**

Storet No. _____ Water Syst. No. _____ Source No. _____

Date Collected **702** Time Collected **1135** Water Rights No. **707**

yr. mo. dy. 24-hour clock

Exact Description of sampling Point

WELL SITE UPGRADE
SYRO STEEL

Supply Owned by _____ Sample Type _____

SYRO STEEL

Sample Collected by _____

Sample Source _____ County _____

Current use: **708**

Proposed use: **709**

1. Culinary

2. Agriculture

3. Industrial

4. Other

Cost Code **770**

2 Temperature (°C) **650** pH **782** WASTEWATER ANALYSIS BACT. LAB. No. _____

3 Filtered _____ Unfiltered _____

me/l CATIONS mg/l ug/l (ppb)

Ammonia as N **722**

Arsenic **723**

Barium **724**

Boron **725**

Cadmium **727**

Calcium **728**

Chromium **729**

Chromium, Hex. as Cr **730**

Copper **732**

Iron, dissolved **733**

Lead **734**

Magnesium **737**

Manganese **738**

Nickel **740**

Potassium **742**

Selenium **743**

Silver **744**

Sodium **745**

Zinc **749**

4 CHEMICAL ANALYSIS pH, units **8.3**

me/l ANIONS mg/l

Bicarbonate **758**

Carbon Dioxide **759**

Carbonate **760**

Chloride **763**

CO₂ Solids **762**

Fluoride **765**

Hydroxide **767**

Nitrate as N **605**

Nitrite as N **606**

Phosphorus, Ortho as P **607**

Silica, dissolved as SiO₂ **750**

Sulfate **772**

6 RADIOLOGICS

Alpha, gross **621**

Beta, gross **623**

Tritium, ³H **625**

²²⁶Radium **627**

²²⁸Radium **629**

⁹⁰Sr **631**

INTERPRETATION OF ANALYSES:

Remarks: _____

Based on State Standards,
this sample was:

B.O.D.₅

Tot. Sus. Solids

M.P.N. Total Coliform.

M.P.N. Fecal Coliform.

Satisfactory
Conditional
Unsatisfactory

Analyses Approved By:

HW-5 6/85

44 Medi UTAH STATE HEALTH LABORATORY
Dr. SLC, Utah 84113 (801) -6131

ENVIRONMENTAL CHEMISTRY

TOTAL METALS AND OTHER ANALYSES

LAB NUMBER 85-2544Field No. CW 85 011A ☐ Known Hazardous Waste ☐ Unknown MaterialDate Collected 85 06 10 Time Collected 11:35 County Davis
year/month/day 24 hr. clockSample collected by (NO ENTRY) Sample Type WaterFacility from which sample was collected Syco SteelExact description of sampling point Offsite upgradient

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☐ pH _____
☐ Solids _____ %
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
☐ or all 18 Metals listed below
☒ or only those Metals checked below

* ☐ Aluminum _____ PPM
* ☐ Arsenic _____ PPM
* ☐ Barium _____ PPM
* ☐ Beryllium _____ PPM
* ☒ Cadmium <.02 PPM
* ☒ Chromium <.2 PPM
* ☐ Cobalt _____ PPM
* ☐ Copper _____ PPM
* ☒ Iron 8.0 PPM
* ☒ Lead <.2 PPM
* ☐ Manganese _____ PPM
* ☐ Mercury _____ PPM
* ☐ Molybdenum _____ PPM
* ☐ Nickel _____ PPM
* ☐ Selenium _____ PPM
* ☐ Silver _____ PPM
* ☐ Vanadium _____ PPM
* ☒ Zinc 0.10 PPM
* ☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

ENVIRONMENTAL CHEMISTRY TOTAL METALS AND OTHER ANALYSES LAB NUMBER 85-2545
Field No. CW 85 012 ☐ Known Hazardous Waste ☐ Unknown Material
Date Collected 85 06 11 Time Collected 09:20 County Davis
Sample collected by Salmon, Heddon 24 hr. clock Sample Type Blank
Facility from which sample was collected Syco Steel
Exact description of sampling point Blank

Field tests _____

Send report to Jim Salmon Bureau of Hazardous Waste Telephone No. 533-4145

Address 4231 State Office Bldg. S.L.C., Utah Zip Code 84114

Date and time received by Lab. _____ Received by _____

OTHER ANALYSES

☐ Oil and Grease _____ PPM
☐ T.K.N. _____ PPM
☐ Reactive HCN _____ PPM
☐ Reactive H₂S _____ PPM
☒ pH _____
☐ Solids _____ %
☒ T, SO₄⁻² _____
☐ _____
☐ _____
☐ _____
☐ _____

TOTAL METALS

check one of the following

☐ 8 Metals (As, Ba, Cd, Cr, Pb, Hg, Se, Ag)
☐ or 12 Metals (The 8 above + Cu, Fe, Mn, Zn)
☐ or all 18 Metals listed below
☐ or only those Metals checked below

☐ Aluminum _____ PPM
☒ Arsenic _____ PPM
☒ Barium <.2 PPM
☐ Beryllium _____ PPM
☒ Cadmium <.02 PPM
☒ Chromium <.2 PPM
☐ Cobalt _____ PPM
☐ Copper _____ PPM
☒ Iron 0.21 PPM
☒ Lead <.2 PPM
☒ Manganese <.1 PPM
☒ Mercury _____ PPM
☒ Molybdenum <.4 PPM
☒ Nickel <.1 PPM
☒ Selenium _____ PPM
☒ Silver <.02 PPM
☐ Vanadium _____ PPM
☒ Zinc 0.053 PPM
☐ _____ PPM

Results are: ☐ Dry weight basis, ☒ Wet weight basis

Preparation and analyses performed by _____

Analysis Certified By _____ Date _____

Rev. 3/82 CW85012

Field No.

☒ TC ☒ TM ☐ Nut ☐ BOD ☐ Pest. ☐ Rad. ☐ Bact. ☐ Spec.

Date Recd.: _____

Received By: _____

UTAH STATE DEPARTMENT OF HEALTH

ENVIRONMENTAL HEALTH
WATER ANALYSES

Sample No. 703

2545

Storet No.	Water Syst. No. Source No.
702	702 704
Date Collected 702	Time Collected 704
8/5/61	0920
yr. mo. dy.	24-hour clock
Water Rights No. 707	
Exact Description of sampling Point	
SYRO STEEL 646	
BLANK	
Supply Owned by	Sample Type
SYRO STEEL CO. 712	710
Sample Collected by	
J. SALMON / J. HERBON 713	
SEND REPORT TO: Phone 5334145	
J. SALMON 715	
BUR. OF HAZ. WASTE 648	
	717
zip code	

Sample Source	County	Current use
719	611	708
01 Spring 14 Other	01 Beaver 16 Mule	Proposed use
02 Well 15 Tunnel	02 Box Elder 17 Rich	709
03 Stream 18 Artesian	03 Cache 18 Salt Lake	1. Culinary
04 Lake well	04 Carbon 19 San Juan	2. Agriculture
06 Dist. syst. 19 Swimming	05 Daguerre 20 Sanpete	3. Industrial
07 Effluent pool	06 Davis 21 Sevier	4. Other
08 Storm sewer	07 Duchesne 22 Summit	
	08 Emery 23 Tooele	
	09 Garfield 24 Uintah	
	10 Grand 25 Utah	
	11 Iron 26 Wasatch	
	12 Juab 27 Washington	
	13 Kane 28 Wayne	
	14 Millard 29 Weber	
	15 Morgan	
FIELD TESTS		Cost Code 770
Temperature (°C) 792	CO ₂ , mg/l 652	
D.O., mg/l 793	Depth, m 609	
Sp. Cond. μ mhos 653	Cl Resid., mg/l 753	
pH 651	Flow, MGD 652	
Sp. Gravity 606	Flow, GPM 604	
Transparency, m 645	Flow, cfs 659	

2	Temperature (°C) 650	pH 782	WASTEWATER ANALYSIS	BACT. LAB. No.
	B.O.D. ₅ 794	T.O.C. 671	M.P.N. Total Coliforms/100ml 656	
	Tot. Sus. Solids 787	C.O.D. 777	M.P.N. Fecal Coliforms/100ml 657	
	NO ₂ +NO ₃ -N 602	Cyanide 775	Fecal Strep C/100ml 656	
	T.K.N. 778	Phenolics 783	M.F. Total Coliforms/100ml 654	
	Oil & Grease 780	Sulfide 672	M.F. Fecal Coliforms/100ml 655	
			Plate Count-Orig./ml 599	

3	Filtered	Unfiltered	4	CHEMICAL ANALYSIS	pH units 6.0						
me/l	CATIONS	mg/l	ug/l (ppb)	me/l	ANIONS	mg/l	5	TOTAL METALS ANALYSIS	mg/l	ug/l (ppb)	
	Ammonia as N 722				Bicarbonate 758	2		Aluminum 800			
	Arsenic 723				Carbon Dioxide 759	3		Arsenic 660			
	Barium 724				Carbonate 760	0		Barium 661			
	Boron 725				Chloride 763			Beryllium 801			
	Cadmium 727				CO ₂ Solids 765	0		Cadmium 662			
	Calcium 728				Fluoride 767	415		Chromium 663			
	Chromium 729				Hydroxide 767	60		Cobalt 804			
	Chromium, Hex. as Cr 730				Nitrate as N 605			Copper 664			
	Copper 732				Nitrite as N 606			Gold 700			
	Iron, dissolved 733				Phosphorus, Ortho as P 607			Iron 755			
	Lead 734				Silica, dissolved as SiO ₂ 750			Lead 665			
	Magnesium 737				Sulfate TOTAL 772			Manganese 666			
	Manganese 738							Mercury 739			
	Nickel 740							Molybdenum 802			
	Potassium 742							Nickel 667			
	Selenium 743							Selenium 668			
	Silver 744							Silver 669			
	Sodium 745							Uranium 601			
	Zinc 749							Vanadium 803			
TOTAL CATIONS				TOTAL ANIONS				GRAND TOTAL			
	Sp. Cond. μ mhos/cm. 762				Tot. Phosphorus 785						
	TDS @ 180°C 786				Total Alk. as CaCO ₃ 752	1					
					T. Hdns. as CaCO ₃ 754						
					Surfactant as MBAS 773						
					Turbidity, as NTU 757	01					
					Sp. Gravity 608						

6	RADIOLOGICS	
	Alpha, gross 621	89Sr 633
	Beta, gross 623	131I 635
	Tritium, ³ H 625	134Cs 637
	226Radium 627	137Cs 639
	228Radium 629	
	90Sr 631	

INTERPRETATION OF ANALYSES:
Remarks:Based on State Standards,
this sample was:B.O.D.₅
Tot. Sus. Solids
M.P.N. Total Coliform
M.P.N. Fecal Coliform

Analyses Approved By:

Date:

By: _____
ENVIRONMENTAL HEALTH

November 5, 1985
9:15 a.m.

TELEPHONE CALL:

TO: Randy Randall
Centerville City Public Water Supplies
Centerville, Utah
801-295-3477

I talked to Mr. Randall regarding the public water supply system in Centerville. Mr. Randall stated the following:

I. The City of Centerville derives its drinking water from the following sources:

A. Four groundwater wells in Centerville:

1. Well at 210 East 200 South
2. Well at 50 East Center Street
3. Holbrook Well
4. Rolling Hills Well.

B. Weber Basin Water Conservancy District (WBOD) which receives its water from four wells and two surface water sources.

II. The water from above two sources is mixed and serves population of 10,000 people.

III. The City of Centerville draws 1000 acre feet of drinking water from its four wells annually. This source serves about 6,500 people in Centerville.

IV. The City of Centerville has water rights to receive 500 acre feet of drinking water from WBOD annually. This source serves about 3,500 people in Centerville.

V. The four drinking water supply wells in Centerville are located within a one-mile radius of Syro Steel.

Muhammad A. Slam
Muhammad A. Slam
Environmental Engineer
Bureau of Solid & Hazardous Waste
Salt Lake City, UT 84145
(801)533-4145

MAS/pw

760311/20

Scott M. Matheson
Governor



STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH

150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

Alvin E. Rickers, Director
Room 474 801-533-6121

May 4, 1982
533-6146

RECEIVED
MAY 6 1982
Utah State Div. Of
Environmental Health

James O. Mason, M.D., Dr.P.H.
Assistant Director
501-533-6111

DIVISIONS

Community Health Services
Environmental Health
Family Health Services
Health Care Financing

OFFICES

Administrative Services
Community Health Nursing
Management Planning
Medical Examiner
State Health Laboratory

General Manager
Syro Steel
950 West 400 South
Centerville, Utah 84014

Gentlemen:

On April 2, 1982 representatives of the Division of Wildlife Resources and Brian Nelson of this Bureau visited the Syro site in West Bountiful to observe and sample the water course west of your operation. The attached analyses indicate results well in excess of Utah water quality standards. The 28-1777 mg/l of zinc and 41-246 mg/l of iron indicate substantial contamination of the waters from what appears to be seepage from the Syro pond and operation. Also, it was observed that a major spill had occurred recently which had flowed across the adjacent field north and west of the Syro plant. This spill had apparently entered the water course and had caused all of the vegetation in its path to be killed or severely distressed. We can find no record of this spill being reported to us as required by state law.

In view of the above, you are hereby requested to supply to this office by May 20, 1982 an explanation of the cause of the spill and mitigative measures which have been taken to prevent future spills. Also please submit a plan of how the company intends to control the ongoing seepage of high metals contamination to waters of the state.

If you have questions regarding compliance with this notice please contact Brian Nelson of our office.

Sincerely,

Calvin K. Sudweeks
Calvin K. Sudweeks, Director
Bureau of Water Pollution Control

BN:ddr

cc: EPA - Compliance Branch
Bureau of Hazardous Waste Management
Utah Division of Wildlife Resource - Rudy Drobnick
Davis County Health Department

1177